

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,040
Source: FWP
Date Processed by STIC: 12/6/06

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IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,040

DATE: 12/06/2006
TIME: 10:10:57

Input Set : A:\P28994.APP
Output Set: N:\CRF4\12062006\J561040.raw

3 <110> APPLICANT: MIYAWAKI, ATSUSHI
 4 TSUTSUI, HIDEKAZU
 5 KARASAWA, SATOSHI
 7 <120> TITLE OF INVENTION: FLUORESCENT PROTEIN
 9 <130> FILE REFERENCE: P28994
 11 <140> CURRENT APPLICATION NUMBER: 10/561,040
 12 <141> CURRENT FILING DATE: 2005-12-16
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP04/08790
 15 <151> PRIOR FILING DATE: 2004-06-16
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-170330
 18 <151> PRIOR FILING DATE: 2003-06-16
 20 <160> NUMBER OF SEQ ID NOS: 23
 22 <170> SOFTWARE: PatentIn Ver. 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 227
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Favia favus
 29 <400> SEQUENCE: 1
 30 Met Ser Val Ile Thr Ser Glu Met Lys Met Glu Leu Leu Met Glu Gly
 31 1 5 10 15
 33 Ala Val Asn Gly His Lys Phe Val Ile Thr Gly Lys Gly Ser Gly Gln
 34 20 25 30
 36 Pro Phe Glu Gly Ile Gln Asn Met Asp Leu Thr Val Ile Glu Gly Gly
 37 35 40 45
 39 Pro Leu Pro Phe Ala Phe Asp Ile Leu Thr Thr Val Phe Asp Tyr Gly
 40 50 55 60
 42 Asn Arg Val Phe Val Lys Tyr Pro Glu Glu Ile Val Asp Tyr Phe Lys
 43 65 70 75 80
 45 Gln Ser Phe Pro Glu Gly Tyr Ser Trp Glu Arg Ser Met Ser Tyr Glu
 46 85 90 95
 48 Asp Gly Gly Ile Cys Leu Ala Thr Asn Asn Ile Thr Met Lys Lys Asp
 49 100 105 110
 51 Gly Ser Asn Cys Phe Val Tyr Glu Ile Arg Phe Asp Gly Val Asn Phe
 52 115 120 125
 54 Pro Ala Asn Gly Pro Val Met Gln Arg Lys Thr Val Lys Trp Glu Pro
 55 130 135 140
 57 Ser Thr Glu Lys Met Tyr Val Arg Asp Gly Val Leu Lys Gly Asp Val
 58 145 150 155 160
 60 Asn Met Ala Leu Leu Leu Gln Gly Gly His Tyr Arg Cys Asp Phe
 61 165 170 175
 63 Arg Thr Thr Tyr Lys Ala Lys Lys Val Val Gln Leu Pro Asp Tyr His
 64 180 185 190
 66 Phe Val Asp His Arg Ile Glu Ile Thr Ser His Asp Lys Asp Tyr Asn

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67 195 200 205
69 Lys Val Lys Leu Tyr Glu His Ala Lys Ala His Ser Gly Leu Pro Arg
70 210 215 220
72 Leu Ala Lys
73 225
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 684
78 <212> TYPE: DNA
79 <213> ORGANISM: Favia favus
81 <220> FEATURE:
82 <221> NAME/KEY: CDS
83 <222> LOCATION: (1)..(681)
85 <400> SEQUENCE: 2
86 atg agt gtg att aca tca gaa atg aag atg gag ctg ctt atg gaa ggc 48
87 Met Ser Val Ile Thr Ser Glu Met Lys Met Glu Leu Leu Met Glu Gly
88 1 5 10 15
90 gct gta aac ggg cac aag ttc gtg att aca ggg aaa gga agt ggc cag 96
91 Ala Val Asn Gly His Lys Phe Val Ile Thr Gly Lys Gly Ser Gly Gln
92 20 25 30
94 cct ttc gag gga ata cag aat atg gac ctg aca gtc ata gag ggc gga 144
95 Pro Phe Glu Gly Ile Gln Asn Met Asp Leu Thr Val Ile Glu Gly Gly
96 35 40 45
98 cct ctt cct ttt gct ttc gat atc ctg aca aca gta ttc gat tac ggc 192
99 Pro Leu Pro Phe Ala Phe Asp Ile Leu Thr Thr Val Phe Asp Tyr Gly
100 50 55 60
102 aac cgg gta ttt gtc aaa tac cca gaa gaa ata gta gac tac ttc aag 240
103 Asn Arg Val Phe Val Lys Tyr Pro Glu Glu Ile Val Asp Tyr Phe Lys
104 65 70 75 80
106 cag tcg ttt cct gag ggt tat tct tgg gaa cga agc atg agt tac gaa 288
107 Gln Ser Phe Pro Glu Gly Tyr Ser Trp Glu Arg Ser Met Ser Tyr Glu
108 85 90 95
110 gac ggg gga att tgc ctc gcc aca aac aat ata acg atg aag aaa gac 336
111 Asp Gly Gly Ile Cys Leu Ala Thr Asn Asn Ile Thr Met Lys Lys Asp
112 100 105 110
114 ggc agc aac tgt ttt gtc tat gaa att cga ttt gat ggt gtg aac ttt 384
115 Gly Ser Asn Cys Phe Val Tyr Glu Ile Arg Phe Asp Gly Val Asn Phe
116 115 120 125
118 cct gcc aat ggt cca gtt atg cag agg aag acc gtc aaa tgg gag cca 432
119 Pro Ala Asn Gly Pro Val Met Gln Arg Lys Thr Val Lys Trp Glu Pro
120 130 135 140
122 tcc act gag aaa atg tat gtg cgt gat gga gtg ctg aag ggt gat gtt 480
123 Ser Thr Glu Lys Met Tyr Val Arg Asp Gly Val Leu Lys Gly Asp Val
124 145 150 155 160
126 aac atg gct ctg ttg ctt caa gga ggt ggc cat tac cga tgt gac ttc 528
127 Asn Met Ala Leu Leu Gln Gly Gly His Tyr Arg Cys Asp Phe
128 165 170 175
130 aga act act tac aaa gca aag aag gtt gtc cag ttg cca gac tat cac 576
131 Arg Thr Thr Tyr Lys Ala Lys Lys Val Val Gln Leu Pro Asp Tyr His
132 180 185 190

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134 ttc gtg gat cat cga att gag ata aca agc cat gac aag gat tac aac 624
135 Phe Val Asp His Arg Ile Glu Ile Thr Ser His Asp Lys Asp Tyr Asn
136 195 200 205
138 aag gtt aag ctg tat gag cat gct aaa gct cat tcc ggg ctg cca agg 672
139 Lys Val Lys Leu Tyr Glu His Ala Lys Ala His Ser Gly Leu Pro Arg
140 210 215 220
142 ctg gcc aag taa 684
143 Leu Ala Lys
144 225
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 23
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
154 primer
156 <220> FEATURE:
157 <221> NAME/KEY: modified_base
158 <222> LOCATION: (3)
159 <223> OTHER INFORMATION: Inosine
161 <220> FEATURE:
162 <221> NAME/KEY: modified_base
163 <222> LOCATION: (9)
164 <223> OTHER INFORMATION: Inosine
166 <220> FEATURE:
167 <221> NAME/KEY: modified_base
168 <222> LOCATION: (21)
169 <223> OTHER INFORMATION: a, c, g, t, unknown or other
171 <400> SEQUENCE: 3
W--> 172 ggnwsbgttna ayggvcayda ntt 23
175 <210> SEQ ID NO: 4
176 <211> LENGTH: 27
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
182 primer
184 <400> SEQUENCE: 4
185 aactggaaga attcgcggcc gcaggaa 27
188 <210> SEQ ID NO: 5
189 <211> LENGTH: 23
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
195 primer
197 <220> FEATURE:
198 <221> NAME/KEY: modified_base
199 <222> LOCATION: (11)

RAW SEQUENCE LISTING DATE: 12/06/2006
 PATENT APPLICATION: US/10/561,040 TIME: 10:10:57

Input Set : A:\P28994.APP
 Output Set: N:\CRF4\12062006\J561040.raw

200 <223> OTHER INFORMATION: Inosine
 202 <220> FEATURE:
 203 <221> NAME/KEY: modified_base
 204 <222> LOCATION: (14) /
 205 <223> OTHER INFORMATION: Inosine
 207 <220> FEATURE:
 208 <221> NAME/KEY: modified_base /
 209 <222> LOCATION: (20)
 210 <223> OTHER INFORMATION: Inosine
 212 <400> SEQUENCE: 5
 W--> 213 tgccwtttgc ntngayatn ttg 23
 216 <210> SEQ ID NO: 6
 217 <211> LENGTH: 35
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Artificial Sequence
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 223 primer
 225 <220> FEATURE:
 226 <221> NAME/KEY: modified_base /
 227 <222> LOCATION: (4) /
 228 <223> OTHER INFORMATION: Inosine
 230 <220> FEATURE:
 231 <221> NAME/KEY: modified_base /
 232 <222> LOCATION: (15) /
 233 <223> OTHER INFORMATION: Inosine
 235 <220> FEATURE:
 236 <221> NAME/KEY: modified_base /
 237 <222> LOCATION: (18) /
 238 <223> OTHER INFORMATION: Inosine
 240 <220> FEATURE:
 241 <221> NAME/KEY: modified_base /
 242 <222> LOCATION: (21) /
 243 <223> OTHER INFORMATION: Inosine
 245 <400> SEQUENCE: 6
 W--> 246 gtcntcttyt gcacnacnngg nccatydgva ggaaa 35
 249 <210> SEQ ID NO: 7
 250 <211> LENGTH: 36
 251 <212> TYPE: DNA
 252 <213> ORGANISM: Artificial Sequence
 254 <220> FEATURE:
 255 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 256 primer
 258 <220> FEATURE:
 259 <221> NAME/KEY: modified_base /
 260 <222> LOCATION: (24)..(25) /
 261 <223> OTHER INFORMATION: Inosine
 263 <220> FEATURE:
 264 <221> NAME/KEY: modified_base

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Input Set : A:\P28994.APP
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265 <222> LOCATION: (29)..(30) /
266 <223> OTHER INFORMATION: Inosine
268 <220> FEATURE:
269 <221> NAME/KEY: modified_base /
270 <222> LOCATION: (34)..(35)
271 <223> OTHER INFORMATION: Inosine
273 <400> SEQUENCE: 7
W--> 274 ggcacgcgt cgactagtac gggngggnn gggnnng 36
277 <210> SEQ ID NO: 8
278 <211> LENGTH: 30
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
284 primer
286 <400> SEQUENCE: 8
287 ttgtcaagat atcgaaagcg aacggcagag 30
290 <210> SEQ ID NO: 9
291 <211> LENGTH: 20
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297 primer
299 <400> SEQUENCE: 9
300 ggcacgcgt cgactagtac 20
303 <210> SEQ ID NO: 10
304 <211> LENGTH: 30
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
310 primer
312 <400> SEQUENCE: 10
313 gtccaccctc tacgactttg agttccatat 30
316 <210> SEQ ID NO: 11
317 <211> LENGTH: 44
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
323 primer
325 <400> SEQUENCE: 11
326 cccggatccg atgagggtga ttacawcaga aatgaagatg gagc 44
329 <210> SEQ ID NO: 12
330 <211> LENGTH: 227
331 <212> TYPE: PRT
332 <213> ORGANISM: Favia favus
334 <400> SEQUENCE: 12

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/06/2006
PATENT APPLICATION: US/10/561,040 TIME: 10:10:58

Input Set : A:\P28994.APP
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 3, 9, 21
Seq#:5; N Pos. 11, 14, 20
Seq#:6; N Pos. 4, 15, 18, 21
Seq#:7; N Pos. 24, 25, 29, 30, 34, 35

VERIFICATION SUMMARY

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Input Set : A:\P28994.APP

Output Set: N:\CRF4\12062006\J561040.raw

L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0